

Messrs. John C. Ticklenborg A.Y.
S.S. No 255 ("Taffels")

Profit and Loss Plans.

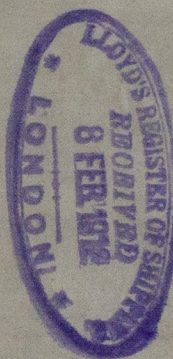
Empire Advocate.

Bum 261.

W271-0162

new Profit and Loss Plans

255



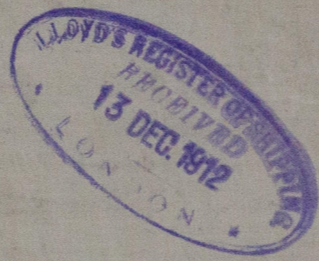
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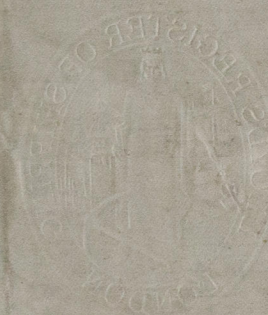
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14.2.12

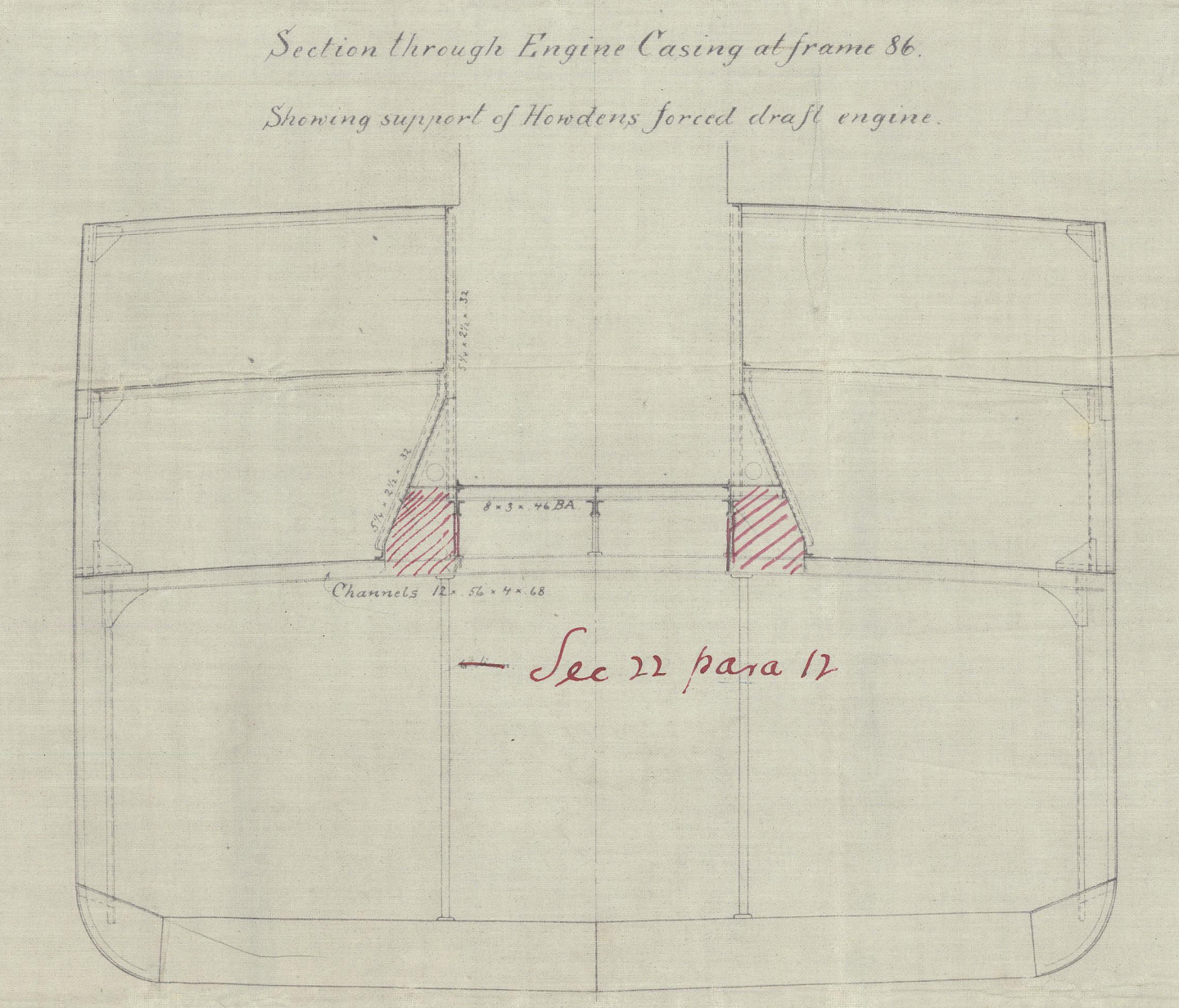
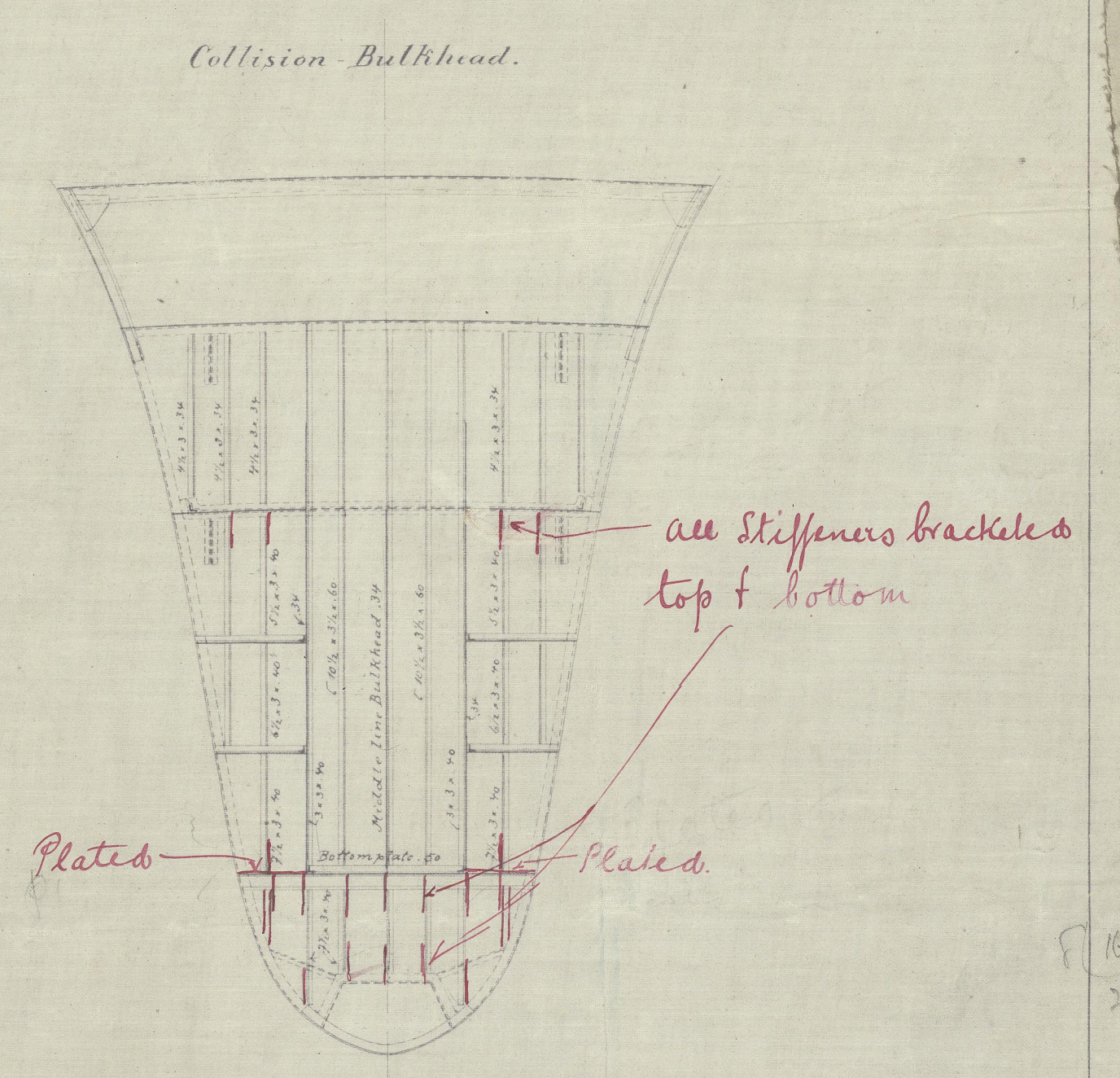
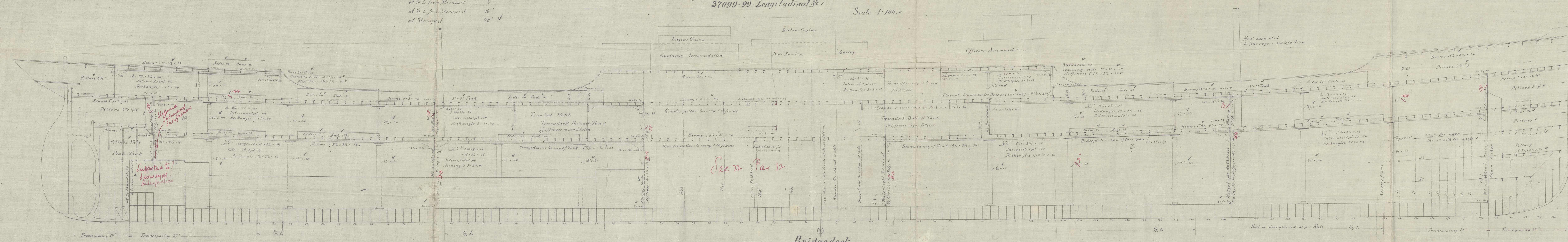
SS.255. Profile & Deckplans.

Class 100 A 1.

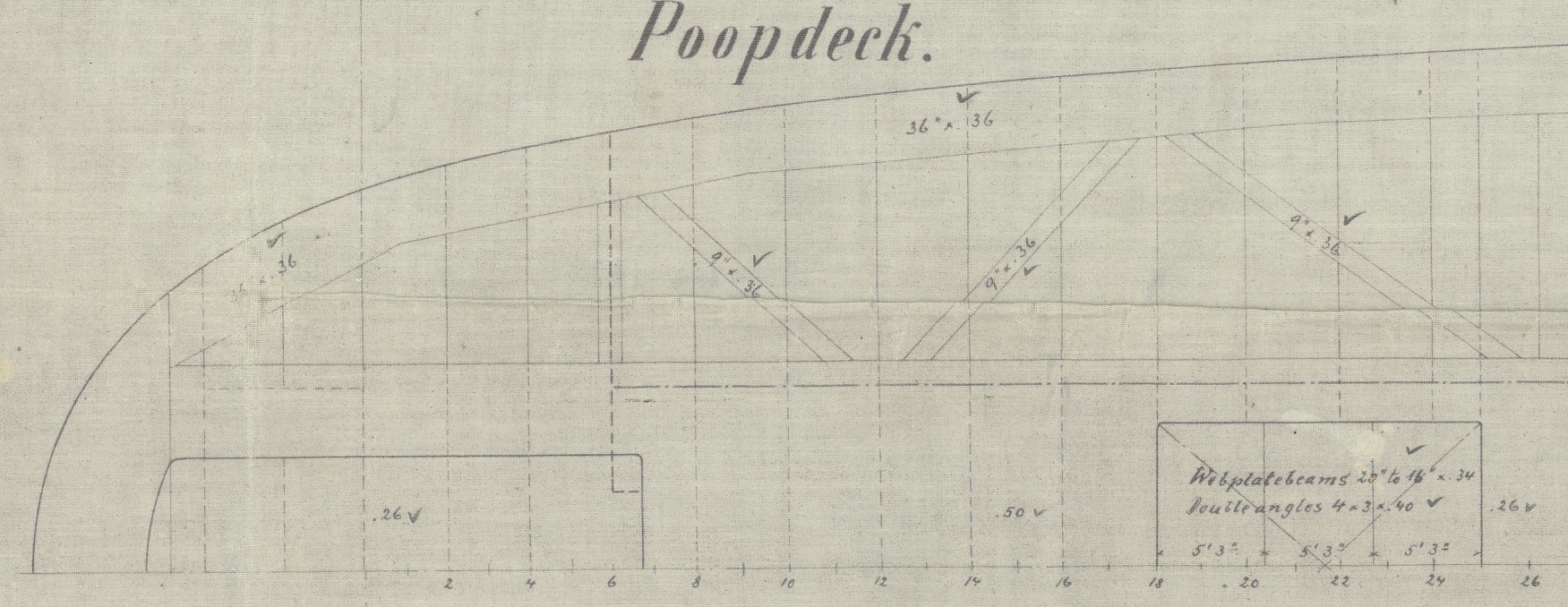
Rule Length 420' 0" Breadth 56' 0" Depth m^{ld} to Upperdeck 32' 4" ditto to Bridgedeck 41' 4"

Shear at Stem 115°
at 1/4 L from Stem 39°
at 1/2 L from Stem 21°
amidships 0°
at 3/4 L from Stem 9°
at 1 L from Stem 46°
at Stem 96°

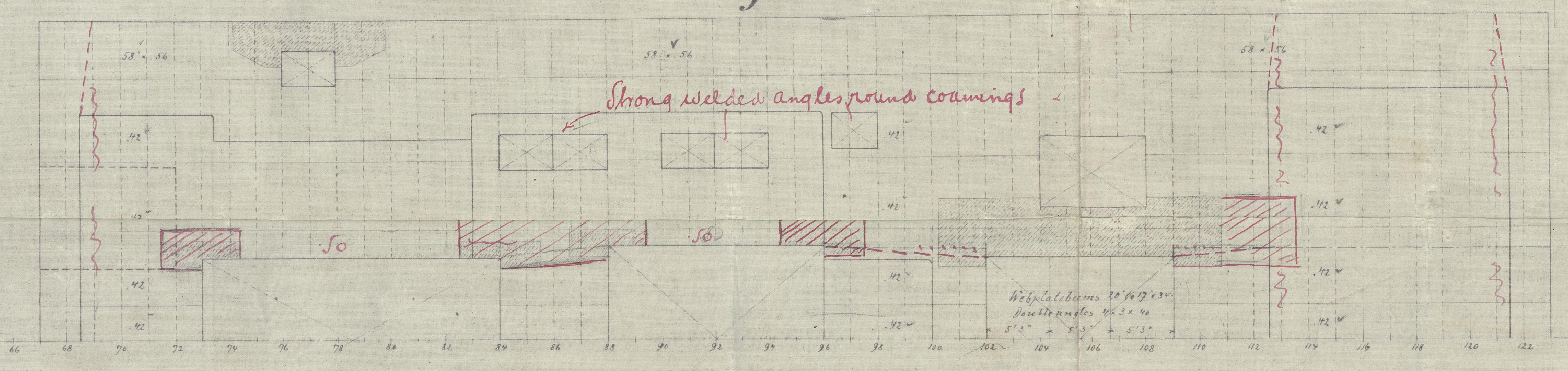
Breadth 56' 00" Length 420' 00"
Depth 32' 33" " " to Upperdeck 12' 58"
88' 33" Transverse N° " Bridgedeck 10' 13"
420' 00" Length 370' 99" Longitudinal N° " Depth (d) for frames 18' 3"
Scale 1:100.



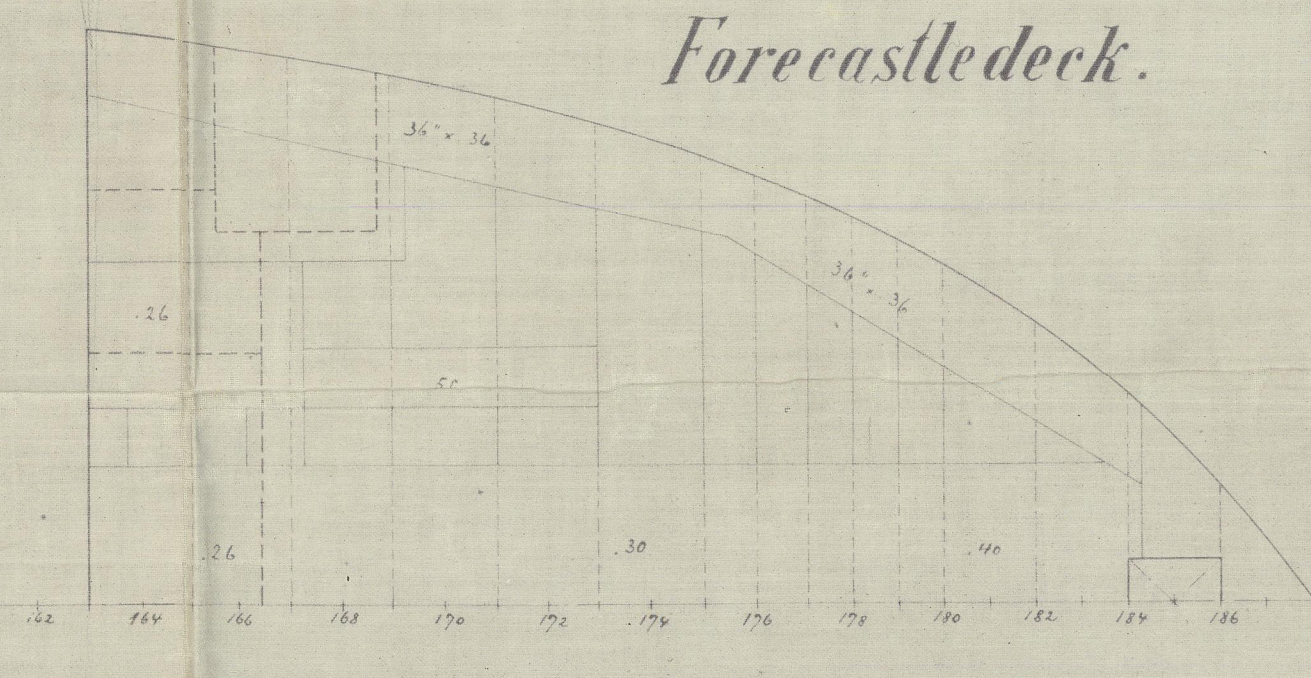
Poopdeck.



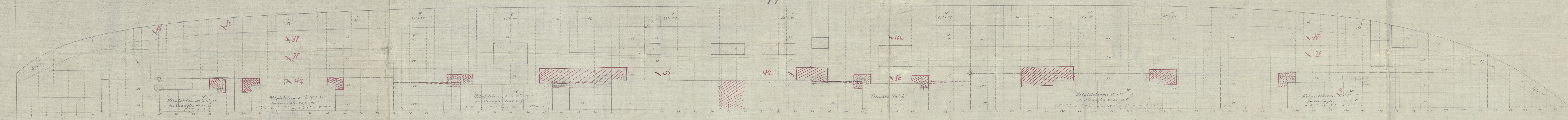
Bridgedeck.



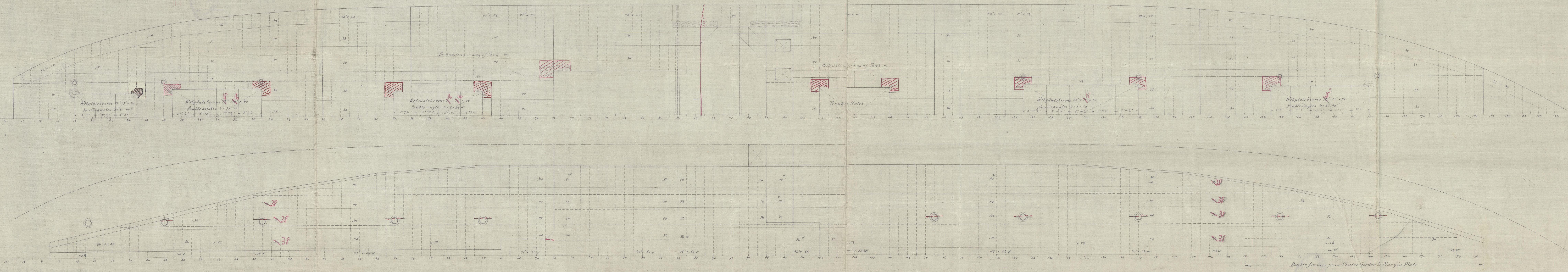
Forecastledeck.



Upperdeck.



2nd Deck.



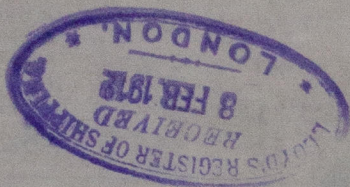
C.B.
14.2.12.

JOHN G. TECKENBORG A.C.
SHIPBUILDERS AND MACHINISTS
BOSTON, MASS.
6.2.12.

Messrs. J. & T. Tecklenborg A.G.
No 255 (Solfelo)
Midship Section.



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255
Messrs. J. & T. Tecklenborg A.G.



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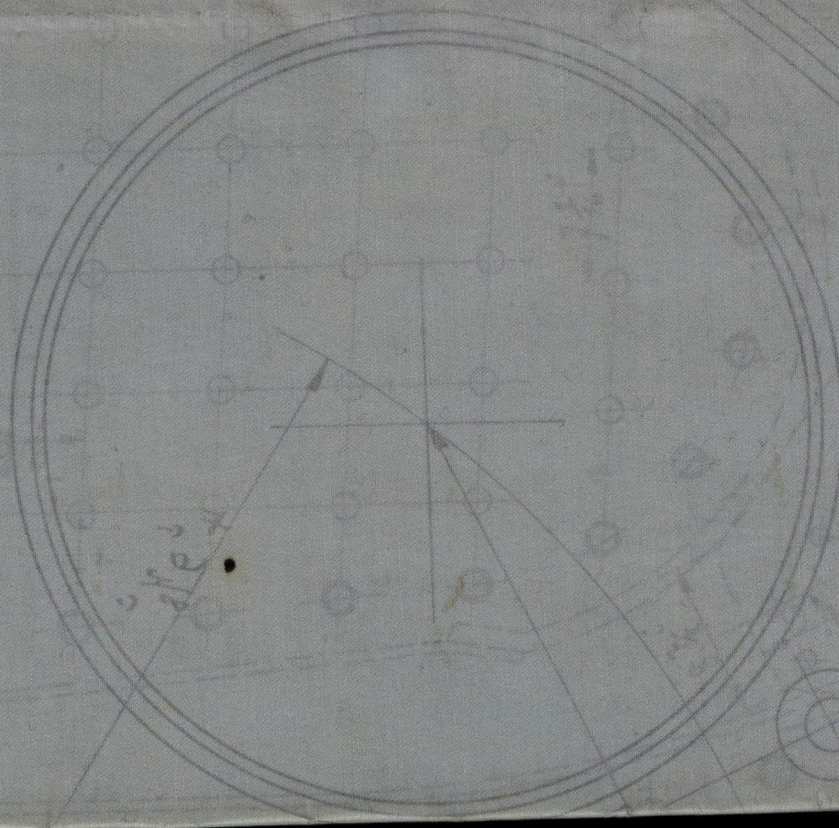
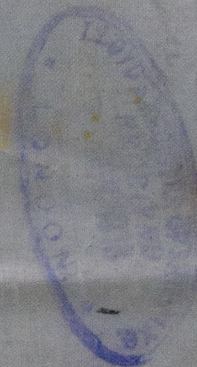


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Messrs. J. & C. Tuckersburg A. G.
J. L. No 255 (Solfels)
Main Boilers

W271-0165



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W271-0165

Heating surface 2310 sq. feet
 Grate 50
 Working pressure 132 lbs.
 Hydraul 363

Steel Boiler for ship 255.

29/12/11

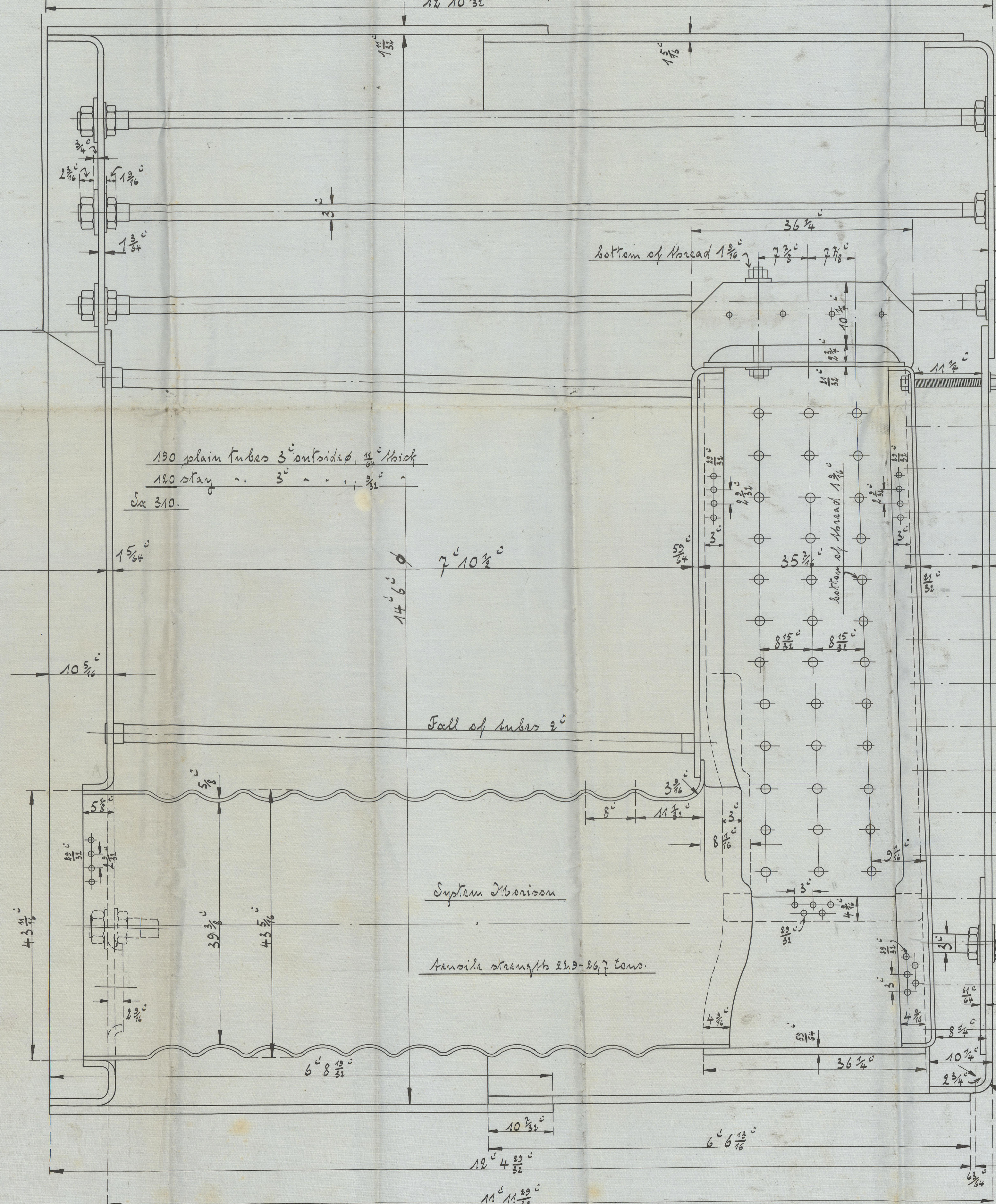
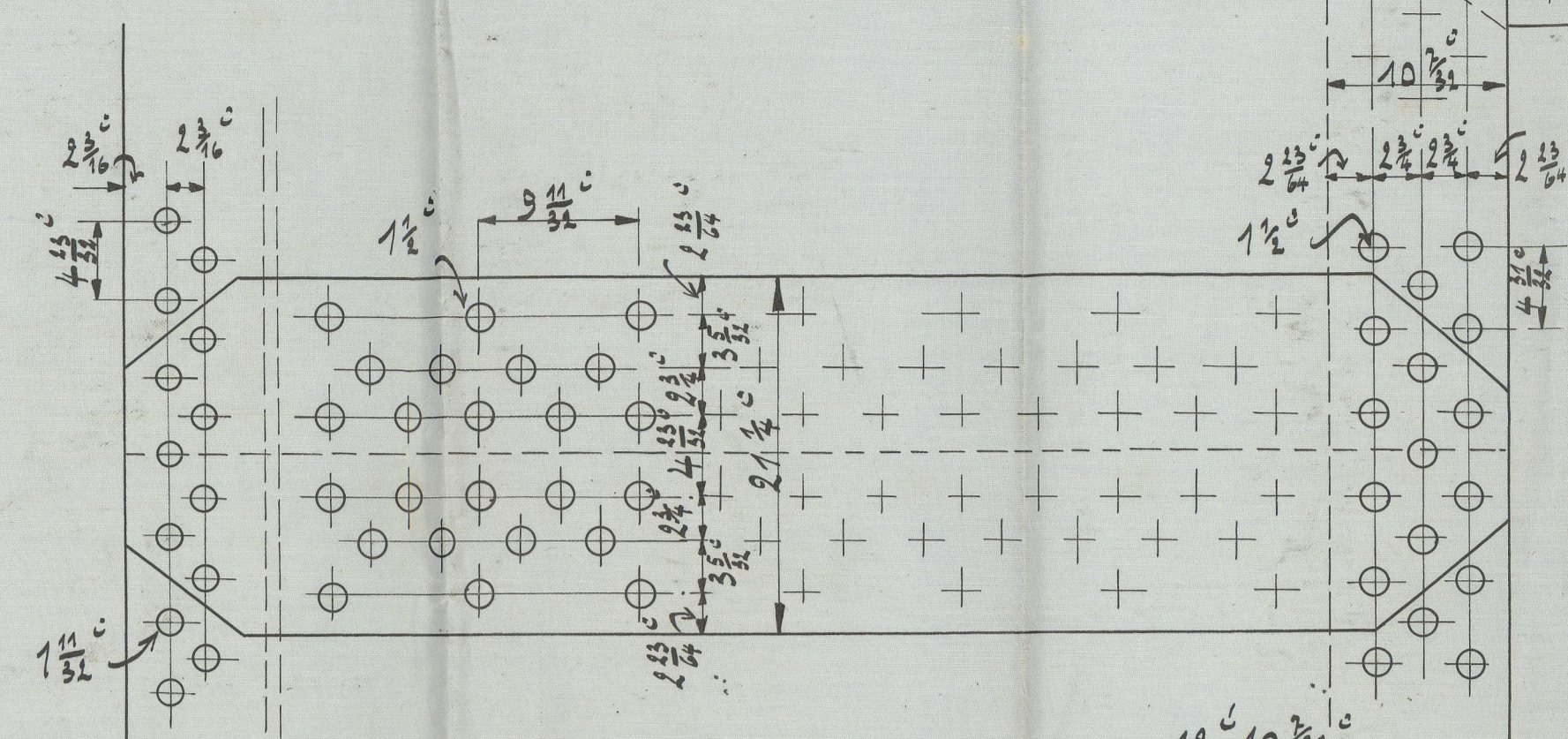
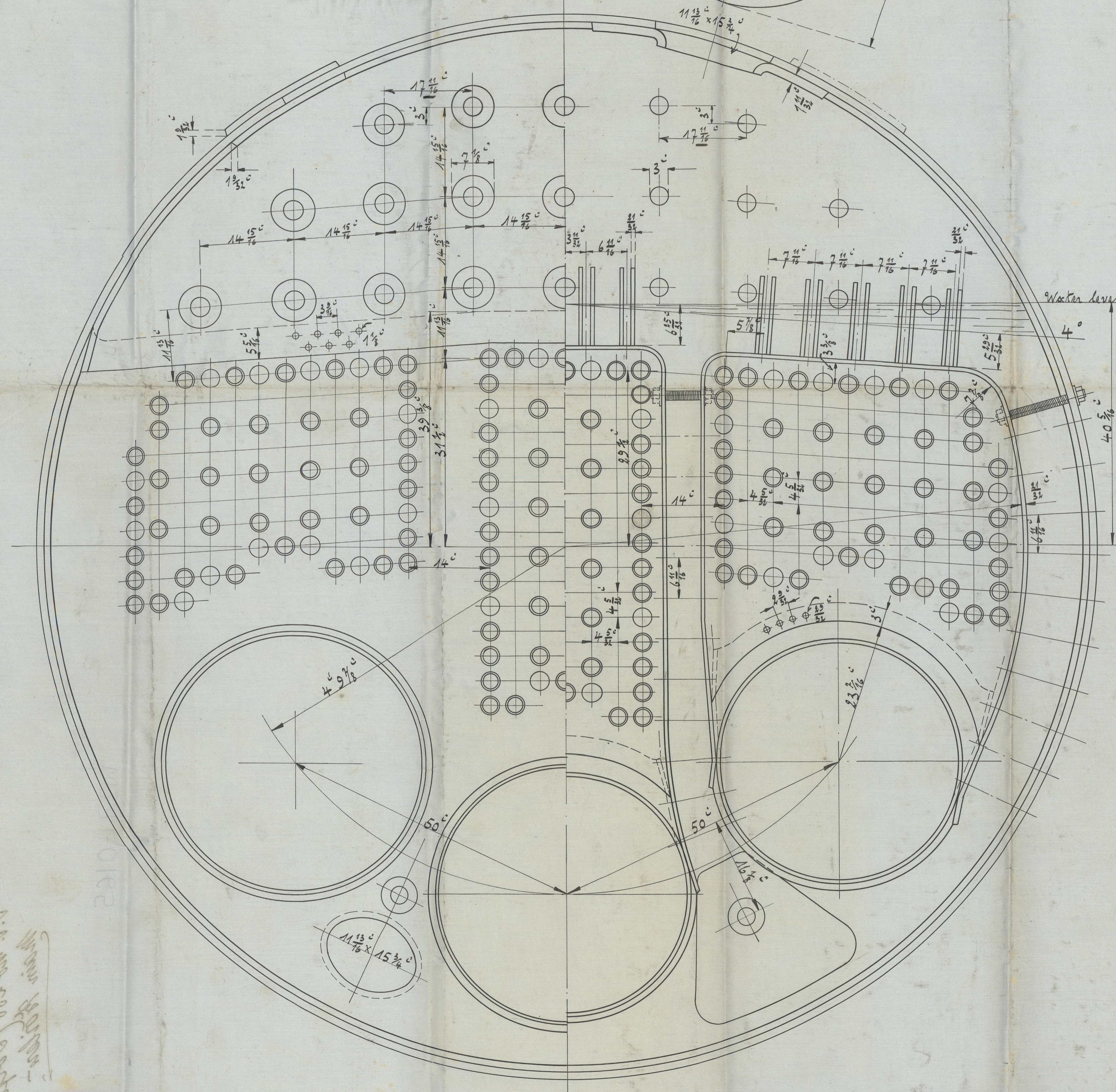
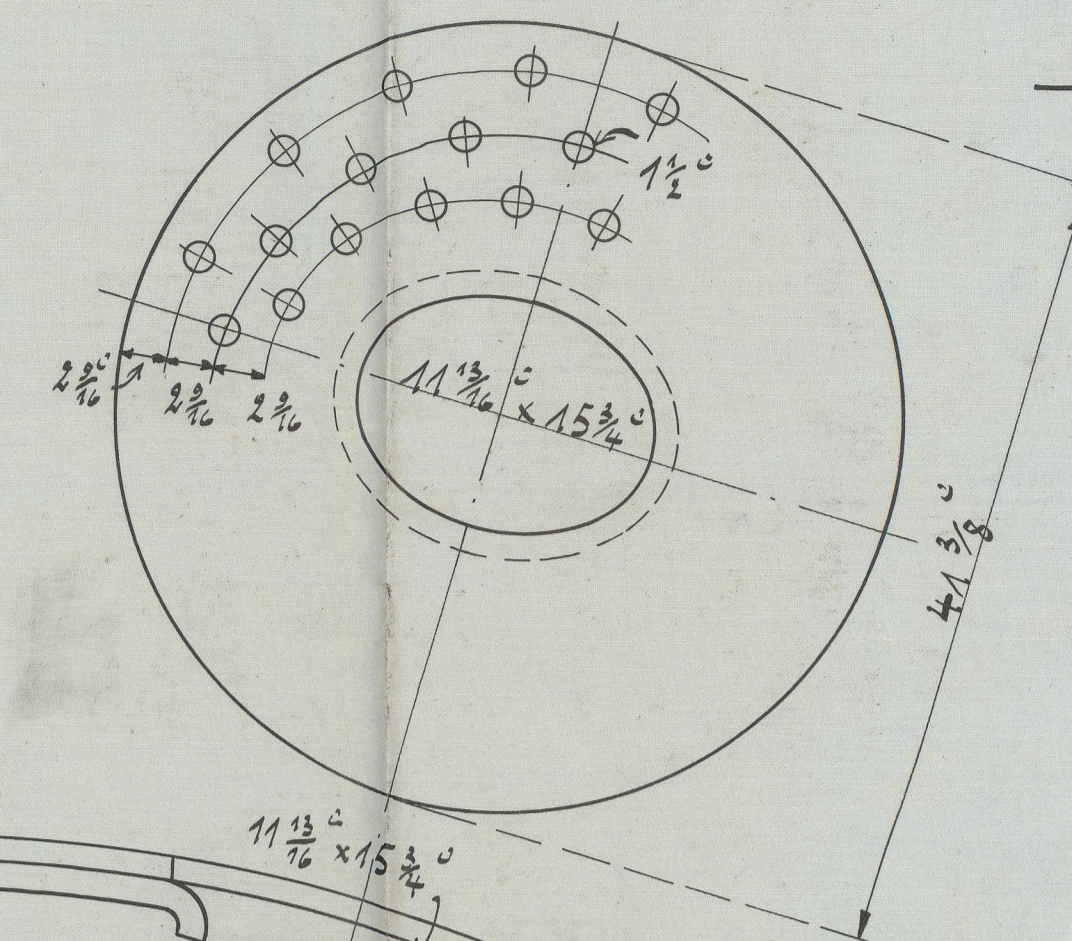
to be classed 100 A steel.

No: 415-16-17.

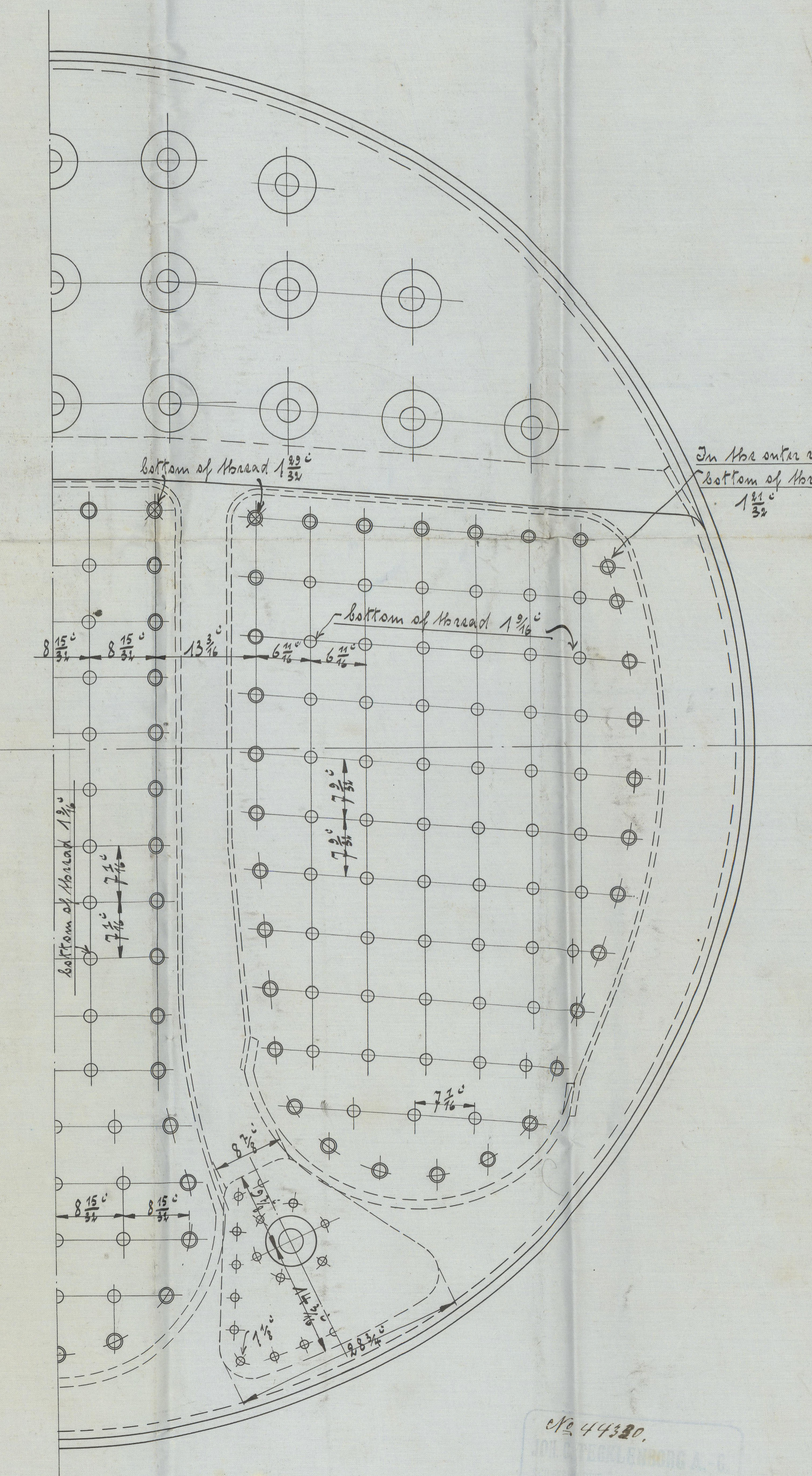
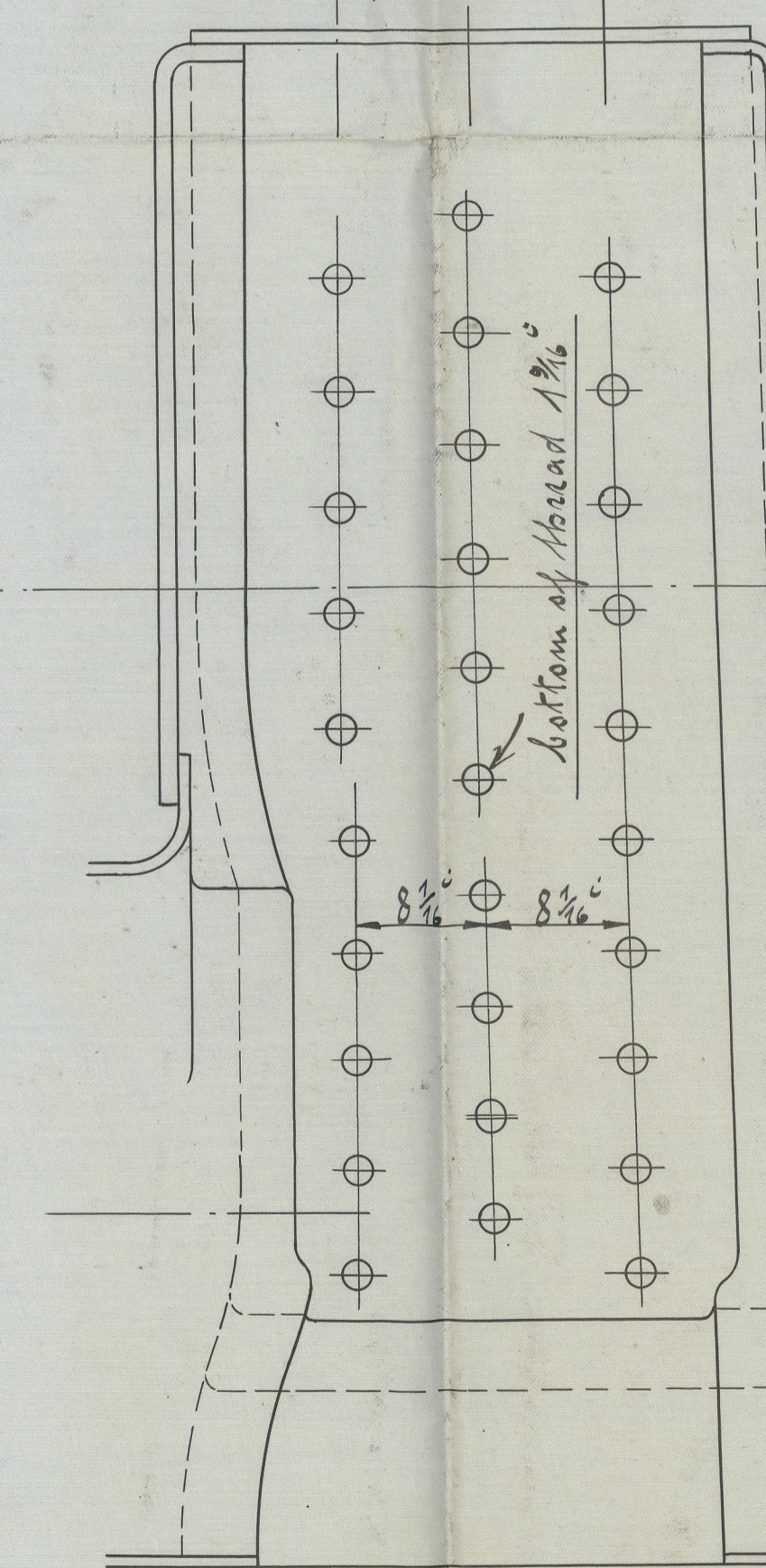
1:10.

Material: Siemens-Martin-Steel
 Shell plating and girders tensile strength 27,2-27,7 tons per sq. inch.
 Elongation 22,5 per cent.
 All the other material 28,3-26,7 tons per sq. inch tensile strength.
 Elongation 26 per cent.
 All stay bolts with nuts and washers; material Feinkornisen
 tensile strength 25,4-28,6 tons per sq. inch.

$$\text{Thickness of shell plate } T = \frac{132 \cdot 1755}{22 \cdot 841} + 2 = \frac{23085}{18492} + 2 = 1 \frac{11}{16}''$$



Stay bolts in the outside plate of the side fire box.



No: 415-16-17.

"
Empire Advocate."



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W271-0164

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Heating surface	1054 square feet
Gale	45 " " "
Working pressure	121 lbs. per sq. inch
Hydraul " "	192 " " "

Material: Siemens Martin-Steel.

Shell plating, bulk straps and girders: Tensile strength 267-30,5 tons per inch
Elongation 22,5 per cent.

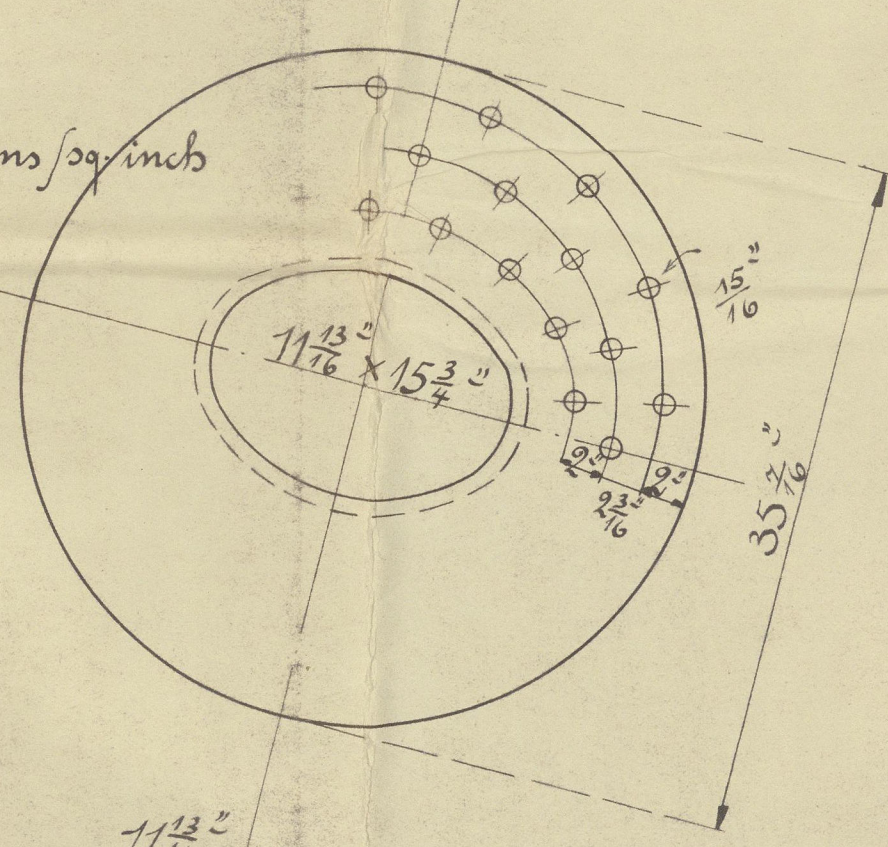
All the other material: Tensile strength 22,9-26,7 tons per sq. inch

Elongation 26 per cent.

All stay bolts with nuts and washers; material

Tensile strength 25,4-28,6 tons per sq. inch.

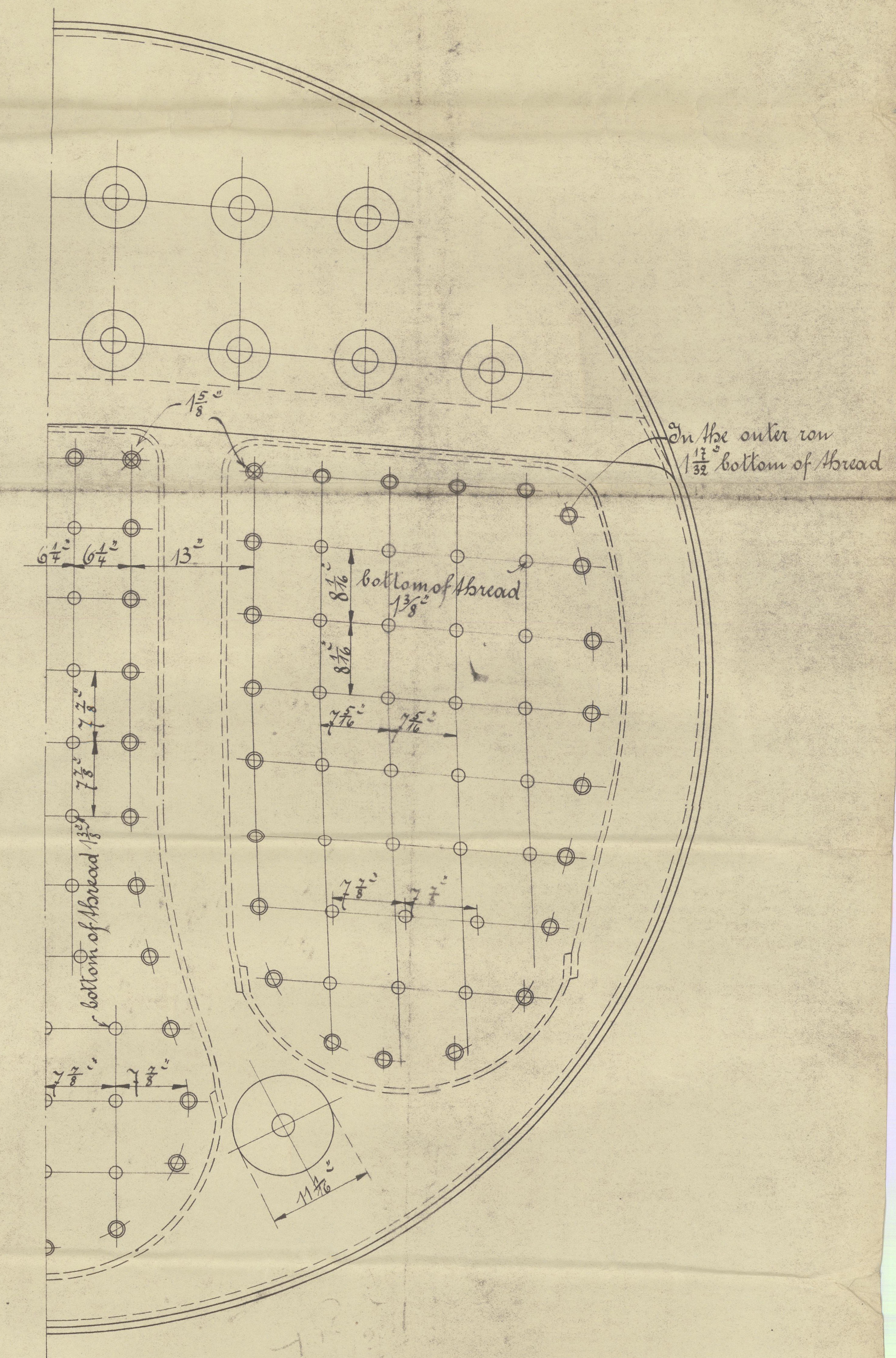
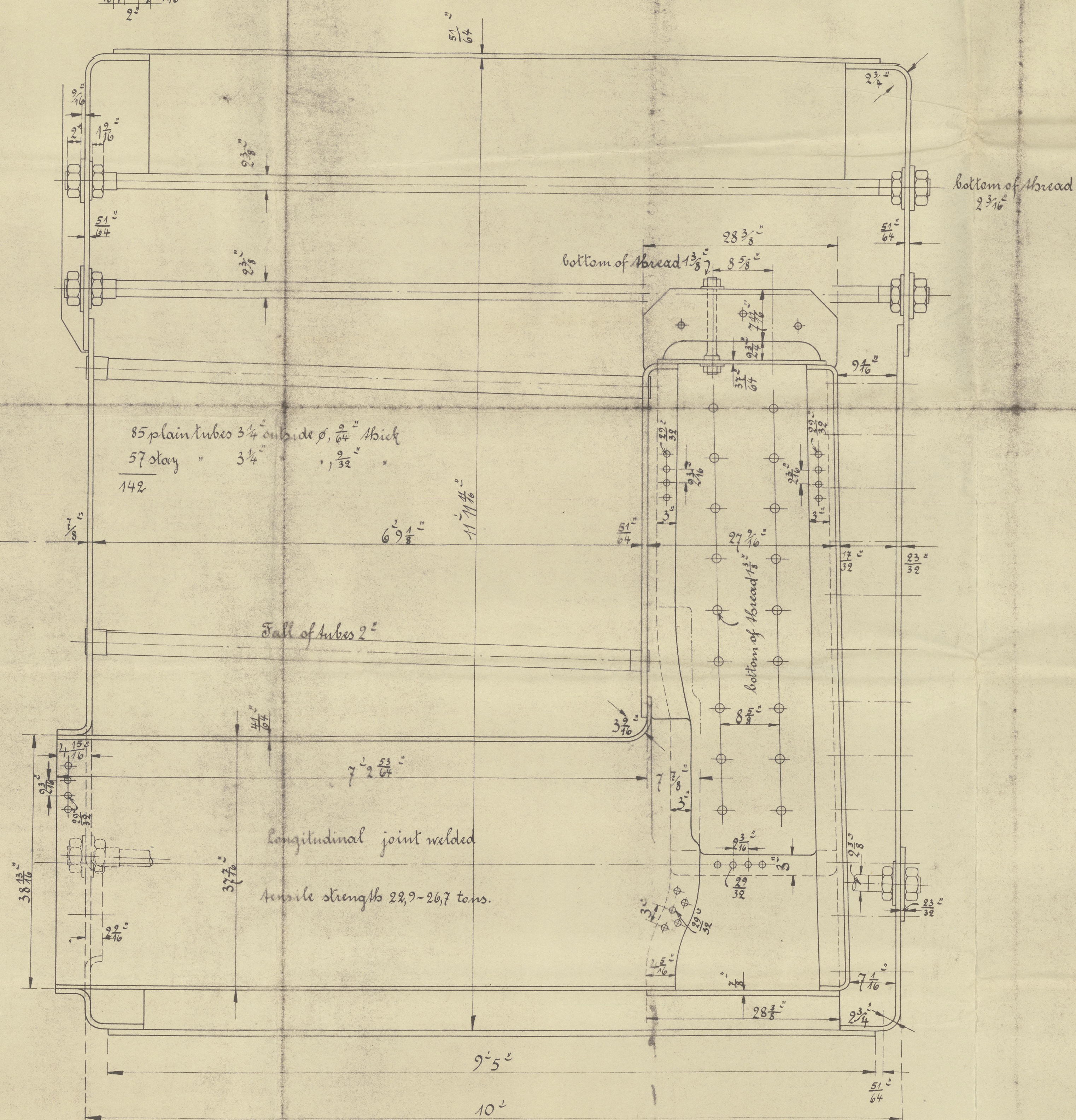
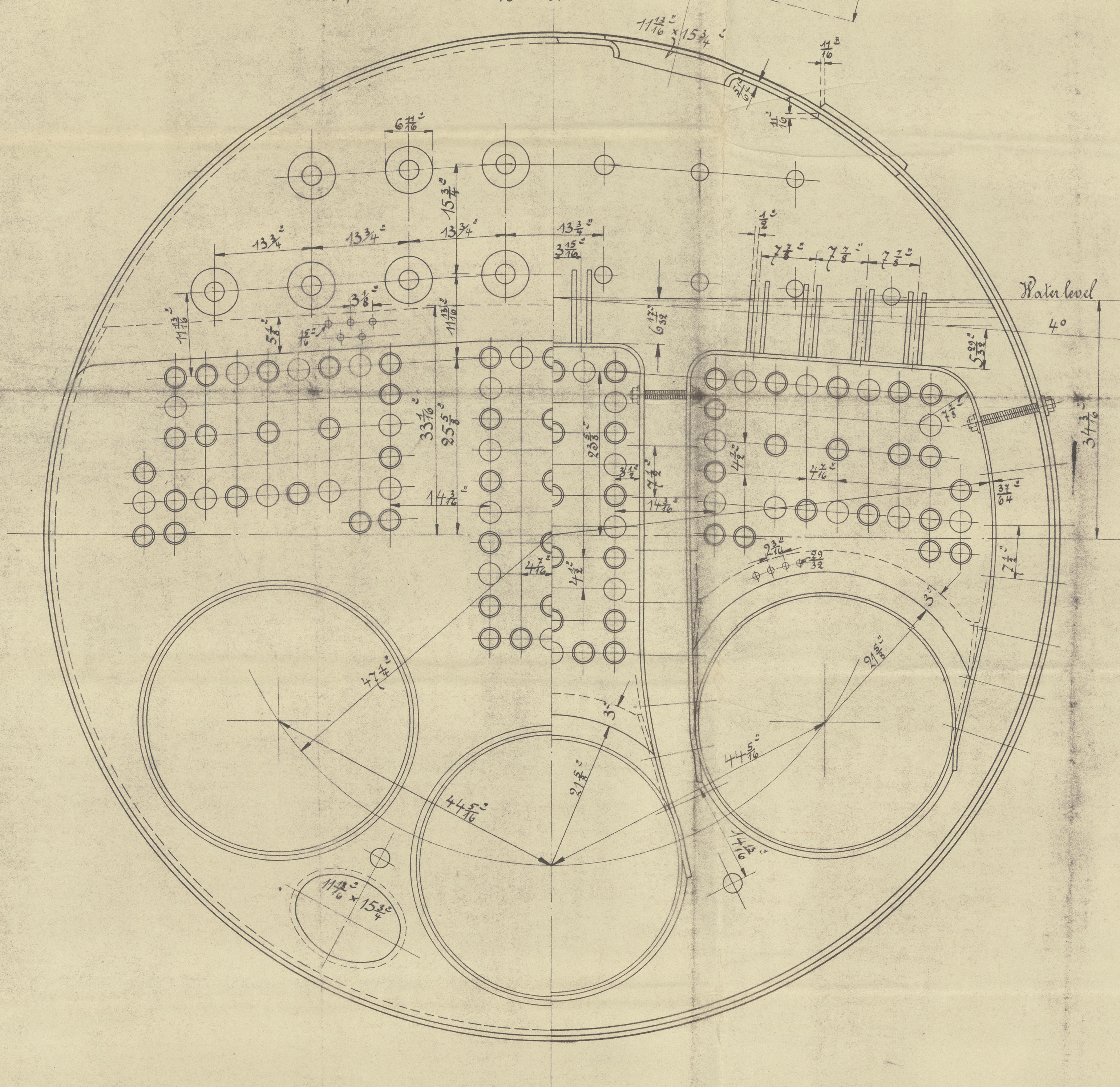
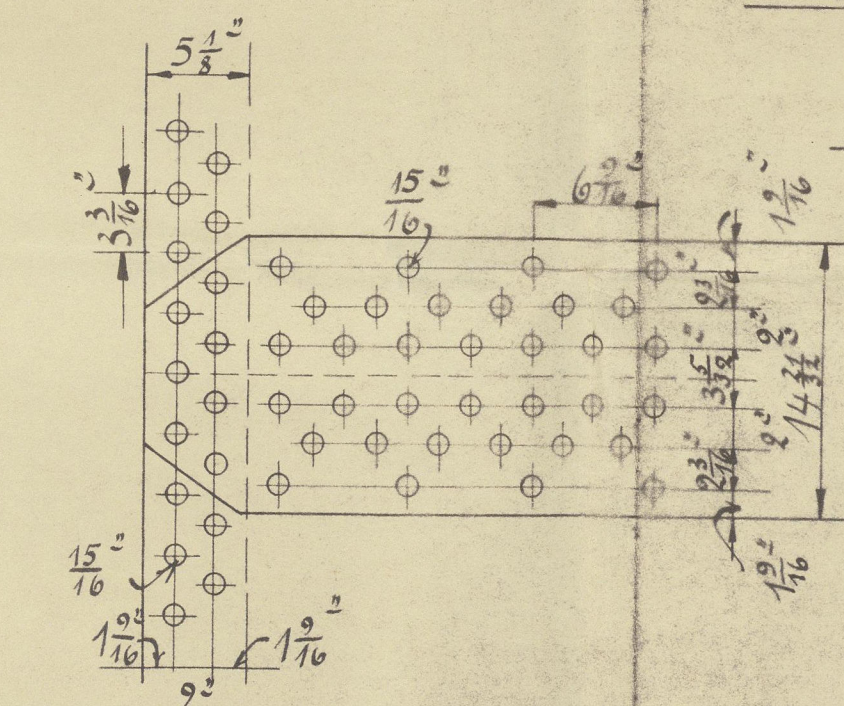
Thickness of shell plate $T = \frac{121.1444}{22.855} + 2 = 9.28 + 2 = \frac{11.28}{16} = \frac{45}{64}$ "



to be classed 100 A, steel.

No 418.

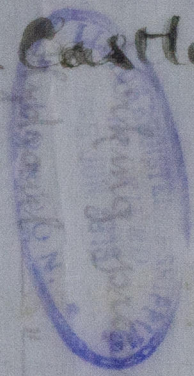
1:10



No. 44328

Messrs. J. & C. Tecklenborg A. G.
 No 255 ("Tallies")
 Aus. Boiler.

Leaves & Castle



Heating surface ————— 1054 square feet

Plate ————— 45 " "

Stays ————— 121 No. per sq. inch

Stays ————— 192 " "

Material: Siemens-Martin-Steel

Shell plating, full sharp and quivers: Tensile strength 267-30.5 tons per sq. inch

Elongation 22.5 per cent.

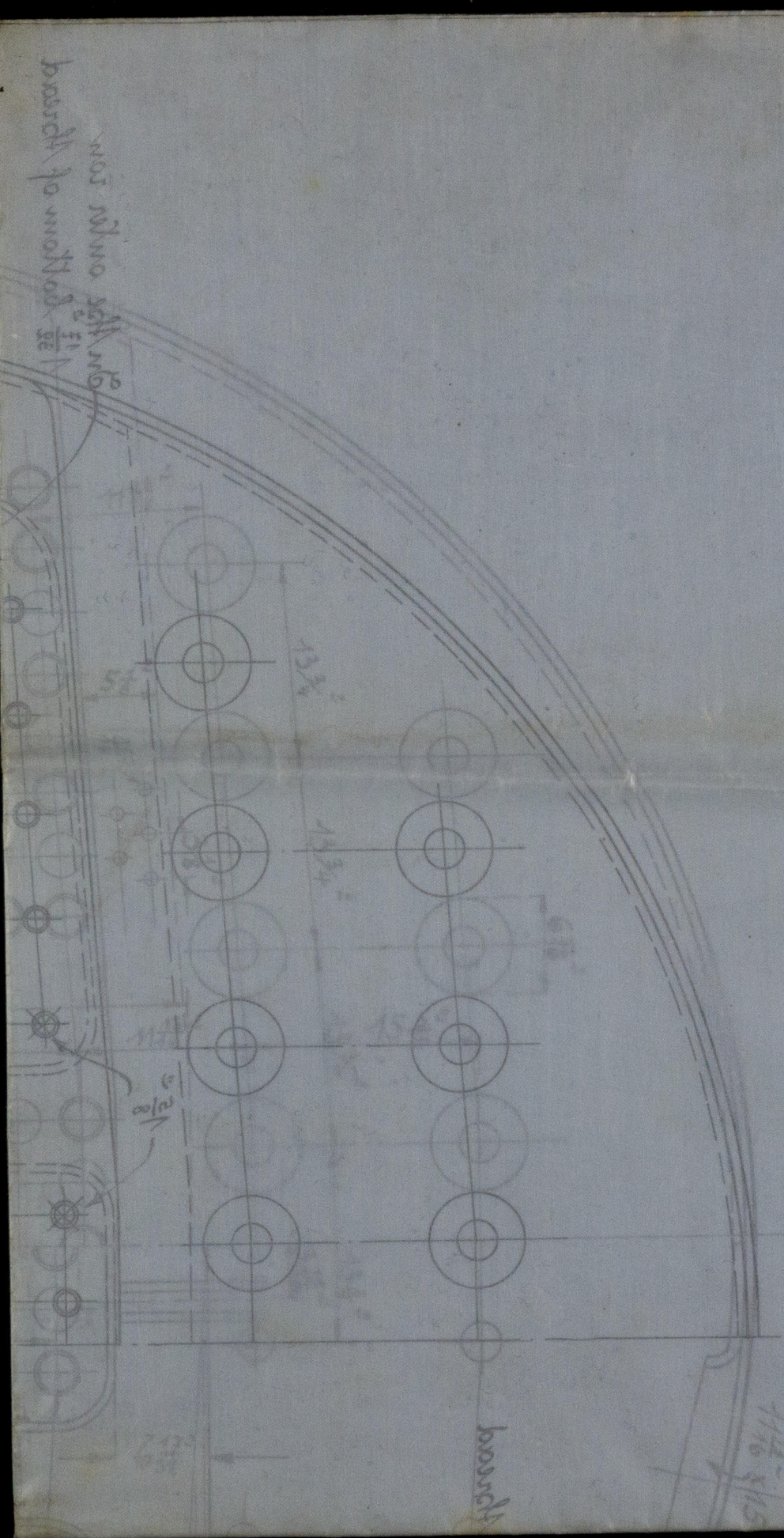
All the other material: Tensile strength 22-26.7 tons per sq. inch

Elongation 26 per cent.

All stay bolts with nuts and washers, material

Tensile strength 25-28.6 tons per sq. inch.

Thickness of shell plate $T = \frac{12.1 \cdot 144.4 + 2 \cdot 11.28 + 2 \cdot 11.28}{22 \cdot 15.5} = \frac{45}{64}$ "



was shown with me
 board to match 1 1/2"

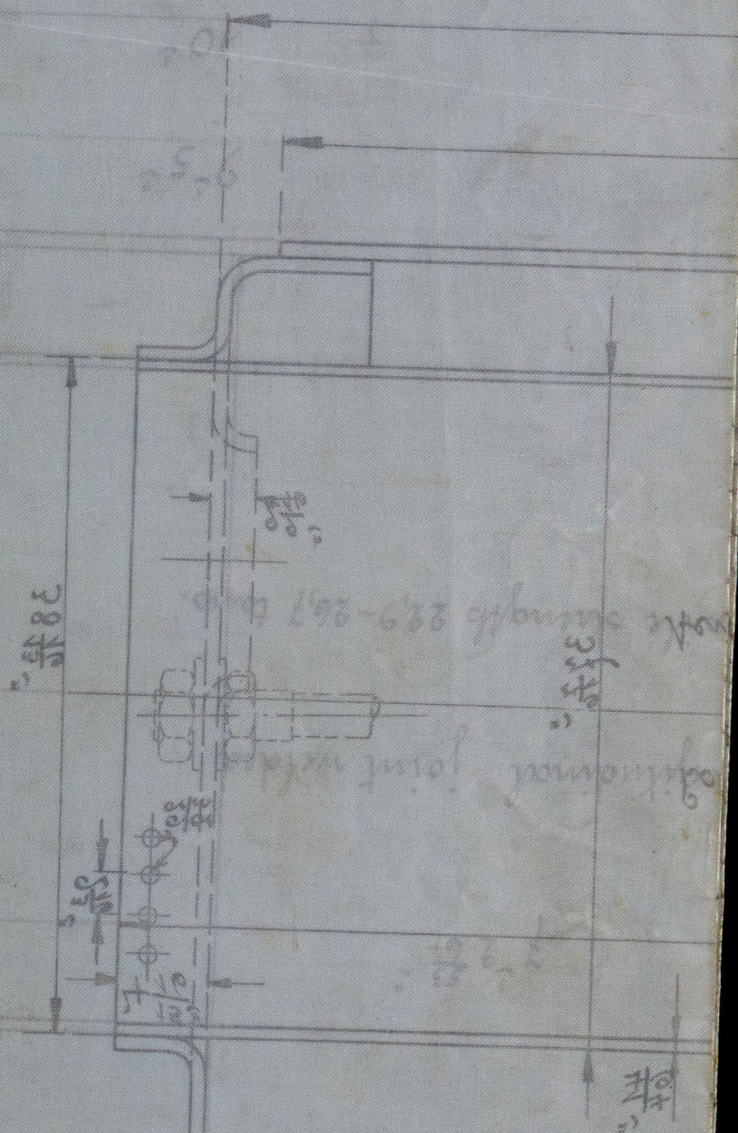


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Run 261



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W2 71-0166 Lloyd's Register Foundation

Heating surface — 1054 square feet
 Grate — 45 " " "
 Working pressure — 121 lbs. per sq. inch
 Hydraul " " — 192 " " "

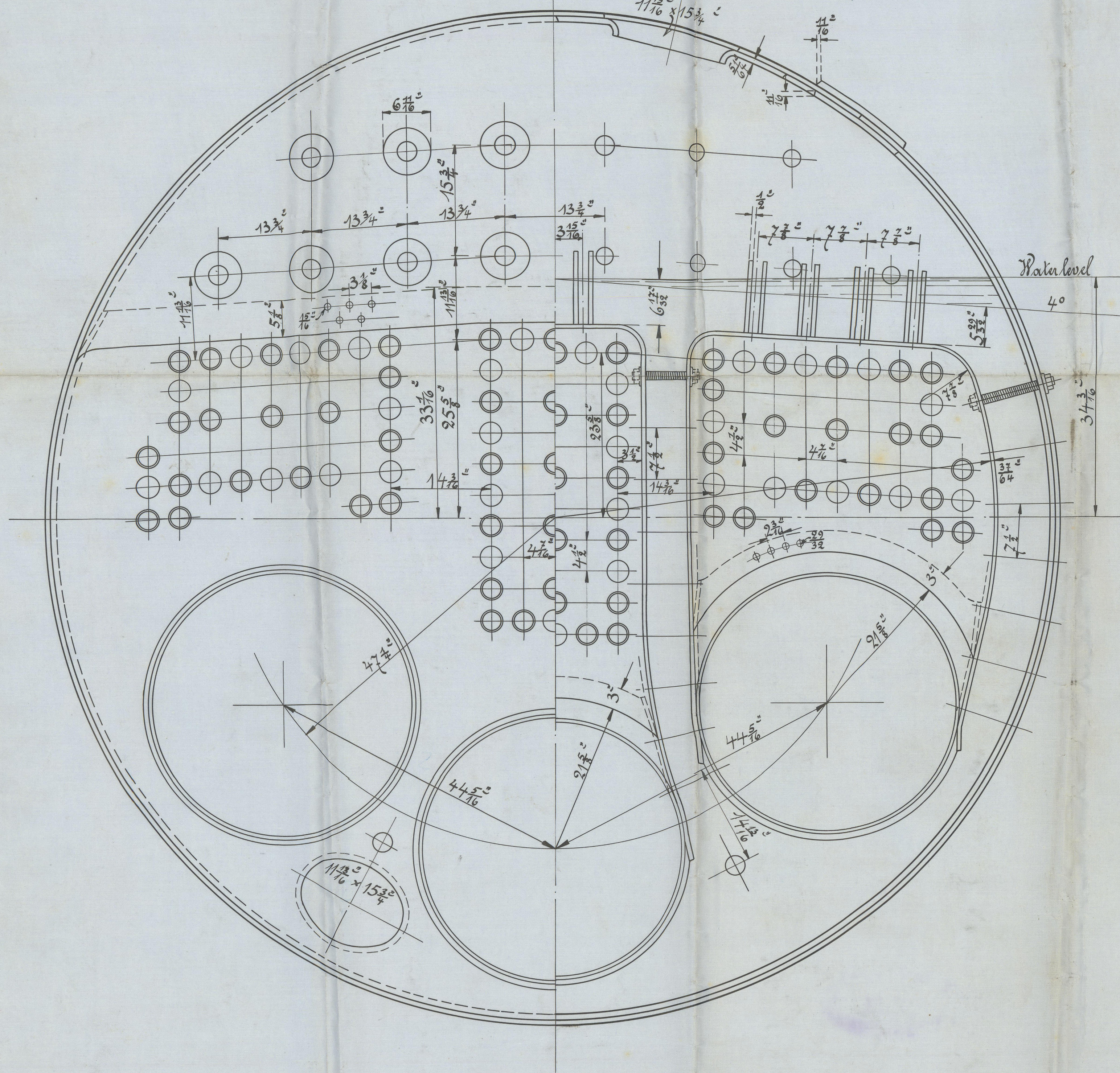
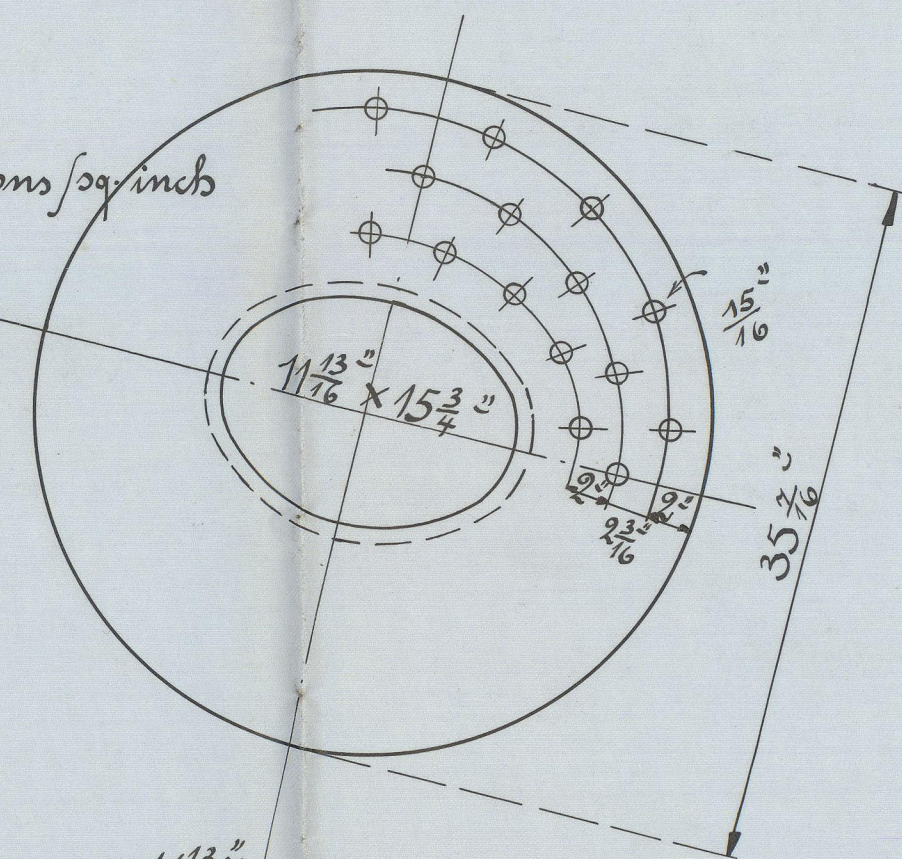
Material: Siemens Martin-Steel.

Shell plating, built straps and girders: Tensile strength 267-30.5 tons per sq. inch
 Elongation 22.5 per cent.

All the other material: Tensile strength 22.9-26.7 tons per sq. inch
 Elongation 26 per cent.

All stay bolts with nuts and washers, material
 tensile strength 25.4-28.6 tons per sq. inch.

$$\text{Thickness of shell plate } T = \frac{121 \cdot 144 \cdot 4}{22 \cdot 85 \cdot 5} + 2 = 3.28 + 2 = \frac{11.28}{16} = \frac{45}{64}$$

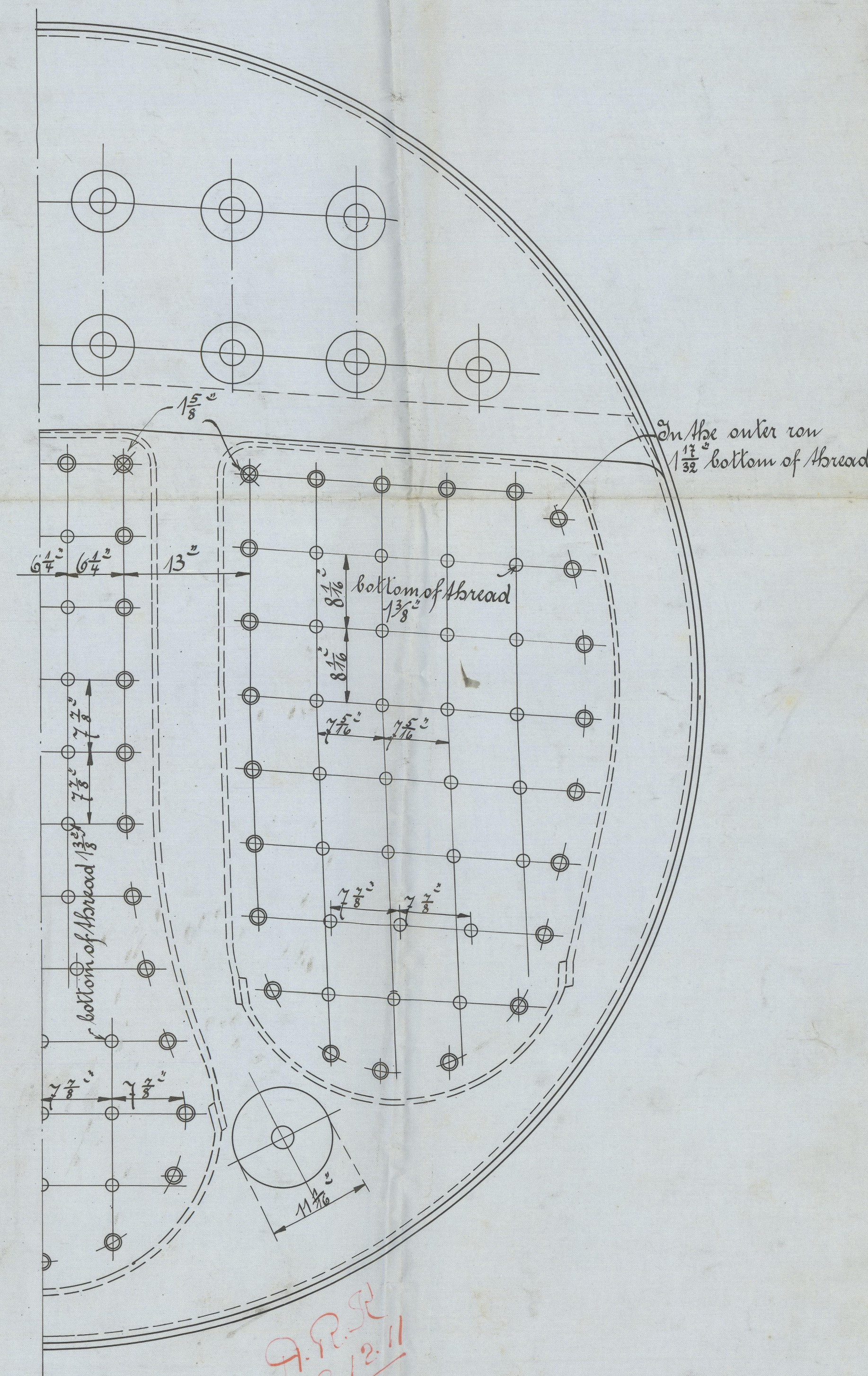
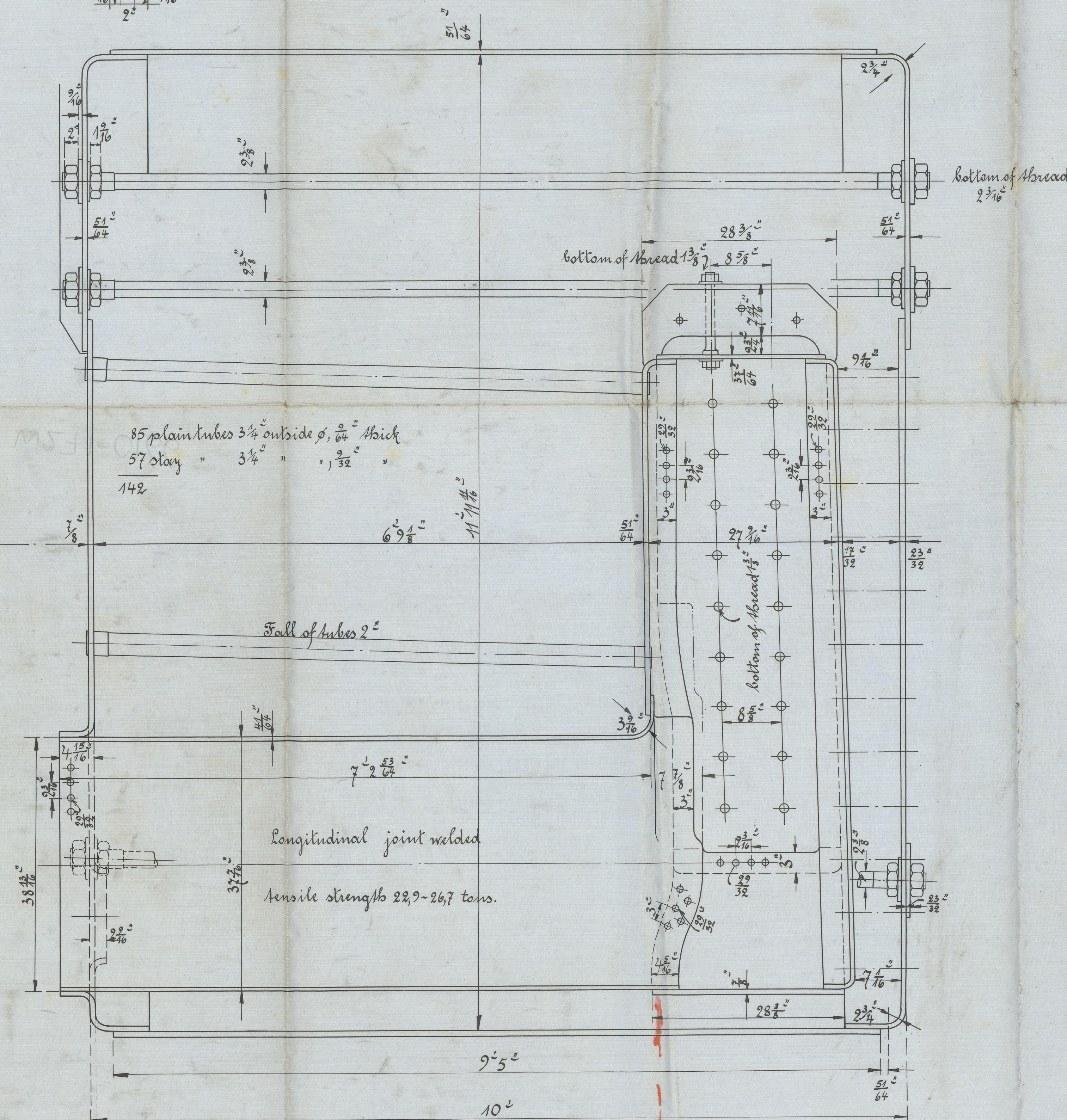
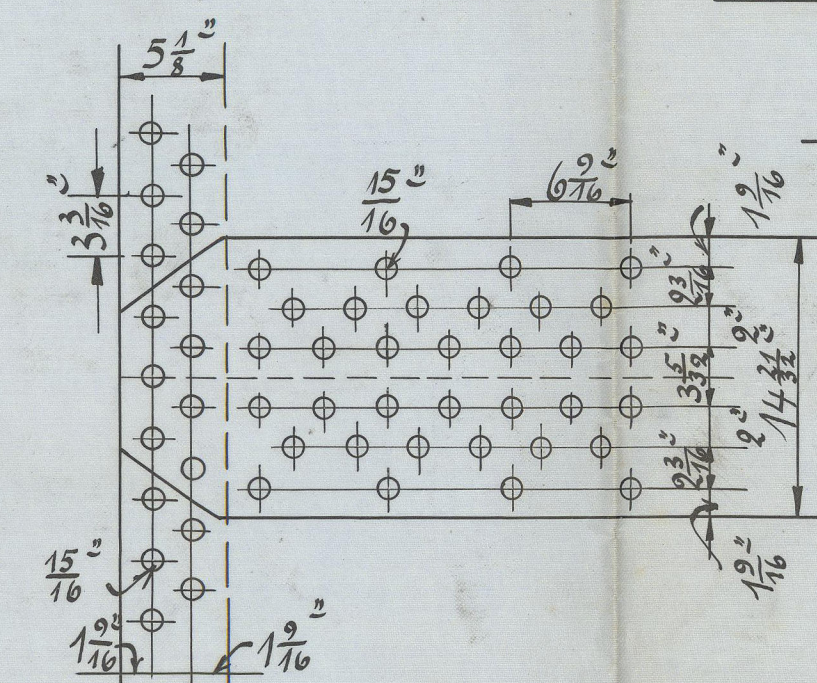


Steel Donkey-Boiler for ship 255.

to be classed 100 A₁ Steel.

No. 418.

1:10



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 29.12.11